IN THE CLAIMS

1-35. (Cancelled)

36. (New) A method of data communications, comprising:
receiving a data packet having classification information;

identifying a Quality of Service (QoS) to associate with the data packet based at least in part on the classification information;

placing the data packet in a QoS queue corresponding to the associated QoS; and scheduling the data packet to be transmitted with other data packets from the QoS queue at or above a minimum bandwidth allocation corresponding to the associated QoS.

- 37. (New) The method of claim 36, wherein identifying the QoS based at least in part on the classification information comprises identifying the QoS based at least in part on a source identifier and a destination identifier for the data packet.
- 38. (New) The method of claim 36, wherein identifying the QoS based at least in part of the classification information comprises identifying the QoS based at least in part on a packet type of the data packet.
- 39. (New) The method of claim 36, further comprising assigning a queue threshold number to the QoS queue; and

wherein placing the data packet in the QoS queue further includes adding the data packet to the QoS queue if a number of packets in the QoS queue does not exceed the threshold number.

40. (New) A network device comprising:a receive port to receive a data packet having classification information;

a logic circuit to identify a Quality of Service (QoS) to associate with the data packet based at least in part on the classification information, and place the data packet in a QoS queue

corresponding to the associated QoS; and

a scheduler to dequeue the data packet with other data packets from the QoS queue and

allocated at least a minimum bandwidth corresponding to the associated QoS for transmission.

41. (New) The network device of claim 40, wherein the logic circuit identifies the QoS based

at least in part on a source identifier and a destination identifier for the data packet.

42. (New) The network device of claim 40, wherein the logic circuit identifies the QoS based

at least in part on a packet type of the data packet.

43. (New) The network device of claim 40, further comprising the logic circuit to assign a

queue threshold number to the QoS queue, and wherein the logic circuit adds the data packet to

the QoS queue if a number of packets in the QoS queue does not exceed the threshold number.